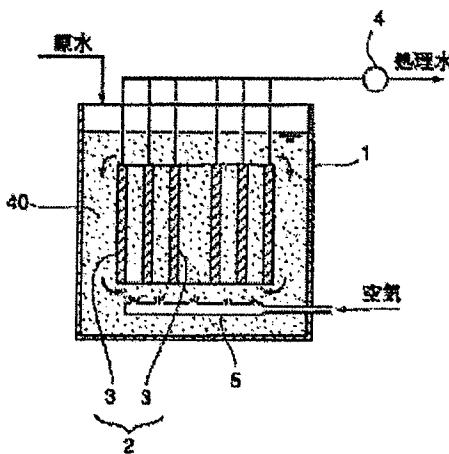


**IMMERSION TYPE MEMBRANE SEPARATION DEVICE**

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**Publication date:** 1999-02-02  
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**Classification:**  
- international: B01D63/06; B01D65/02; C02F1/44; B01D63/06;  
B01D65/00; C02F1/44; (IPC1-7): C02F1/44; B01D63/06;  
B01D65/02; C02F1/44  
- European:  
**Application number:** JP19970182688 19970708  
**Priority number(s):** JP19970182688 19970708

[Report a data error here](#)**Abstract of JP11028467**

**PROBLEM TO BE SOLVED:** To prevent deposition of suspension matters in a treating tank by being constituted of the circular treating tank in a plane shape, a filter unit concentrically arranged plural cylindrical filter membrane elements provided in the treating tank, and a diffusion pipe arranged at the lower part of the filter unit. **SOLUTION:** Raw water is fed to the treating tank 1 into which air is blown to digest with microorganisms, and is sucked by a sucking pump 4 in parallel to a progress of the digestion treatment. The treated water is transmitted through the filter membrane of the filter element 3 and taken out, and sludge is caught with the filter membrane and remained in the treating tank 1. At this time, an ascending flow generates in the filter unit 2 by blowing of air, and since the filter unit has a cylindrical form, the treated water ascended the inside goes out to the outside uniformly and descends. Also the filter unit 2 is arranged concentrically and a space between the filter unit 2 and the treating tank 1 is same at each place, then a uniform descending flow is formed at the outside, and a stagnation place hardly generates.



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